

CLIPPEDIMAGE= JP406319250A

PAT-NO: JP406319250A

DOCUMENT-IDENTIFIER: JP 06319250 A

TITLE: LINEAR MOTOR

PUBN-DATE: November 15, 1994

INVENTOR-INFORMATION:

NAME

SATAKE, AKIYOSHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

OKUMA MACH WORKS LTD

N/A

APPL-NO: JP05124653

APPL-DATE: April 30, 1993

INT-CL (IPC): H02K041/03

ABSTRACT:

PURPOSE: To provide a linear motor which is low in a cost, stable in characteristics and mechanically rugged.

CONSTITUTION: A moving element is so constituted that windings 6a, 6b, 6c are provided outside the frame 5 of hollow structure. In a first stator, a plurality of first permanent magnets 1 are so juxtaposed in the moving direction of the moving element that magnetic poles facing against each other

through an air gap have a same polarity, and the part of constituting the magnetic poles of the first permanent magnets 1 is covered with a magnetic material 3 made up of a circular arc and a straight line, and the moving element is so constituted as to be excited from the outer surface. In a second stator, a plurality of second permanent magnets 2 are so juxtaposed in the moving direction of the moving element that the magnetic poles facing against each other through an air gap have a same polarity and also the magnetic poles corresponding to the first permanent magnets 1 have a different polarity, and the part of constituting the magnetic poles of the second permanent magnets 2 is covered with a magnetic material 4 made up of a circular arc and a straight line, and the moving element is so constituted as to be excited from the inner surface.

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CLIPPEDIMAGE= JP359006767A

PAT-NO: JP359006767A

DOCUMENT-IDENTIFIER: JP 59006767 A

TITLE: LINEAR MOTOR

PUBN-DATE: January 13, 1984

INVENTOR-INFORMATION:

NAME

OGAWA, MASATAKA

KOBAYASHI, HIDEKI

HIRANO, NORIMITSU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

TAKAHASHI YOSHITERU

N/A

APPL-NO: JP57112534

APPL-DATE: July 1, 1982

INT-CL (IPC): H02K041/03

ABSTRACT:

PURPOSE: To increase the thrust of a linear motor by opposing a pair of field magnets arranged alternately with N- and S-poles, arranging a plurality sets of drive coils in which the first and second conductors are connected in the gap, thereby composing the motor.

CONSTITUTION: Field magnets 10, 10' arranged longitudinally with N-, S-poles so

that the adjacent poles become different polarity are oppositely disposed at the same polarity at the gap, the first and second conductors 18a, 18b wound with coil unit 12 of long plate shape made of magnetic material are disposed in the gap longitudinally isolated in the opening width of the poles, and connected to dispose a plurality sets of drive coils 18. A linear motor is formed with any of field magnet side and drive coil side as a moving element. Accordingly, the connecting part between the drive coils 18 which do not contribute to the thrust is only one conductor, thereby increasing the thrust.

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DERWENT-ACC-NO: 1995-190024  
DERWENT-WEEK: 199525  
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TITLE: Linear DC motor for X=Y table apparatus -  
has coil support part  
inserted into opposite part so that coil counters  
with end faces of projection  
parts in predetermined direction

PATENT-ASSIGNEE: MIKUNI KK[MIKN]

PRIORITY-DATA: 1993JP-0250624 (October 6, 1993)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
JP 07107728 A	006	April 21, 1995	H02K 033/18
			N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP 07107728A	N/A	
1993JP-0250624	October 6, 1993	

INT-CL (IPC): B23Q001/62; B23Q005/28 ;  
H02K033/18 ; H02K041/02 ;  
H02K041/035

ABSTRACTED-PUB-NO: JP 07107728A

BASIC-ABSTRACT: The DC motor has a stationary and  
moving part. The fixed part  
comprises a yoke formed by a pair of vertical parts  
(21a,21b) parallel to a  
base part (21c). In between the base part and the  
projection parts, a  
permanent magnet is fixed. The coil wound on the

moving part is so positioned  
so as to counter the permanent magnet placed  
between the projection parts. The  
polarisation of the coil is performed in a  
predetermined direction.

The magnetic member has a coil support part  
inserted into the opposite part so  
that the coil counters with the end face of the  
projection parts in a  
predetermined direction.

ADVANTAGE - Enables noise reduction and eliminates  
contact tone generation.  
Obtains highly precise linear movement irrespective  
of range. Improves  
confirmation and performance of motor.

CHOSEN-DRAWING: Dwg.3/4

TITLE-TERMS:

LINEAR DC MOTOR X=Y TABLE APPARATUS COIL SUPPORT  
PART INSERT OPPOSED PART SO  
COIL COUNTER END FACE PROJECT PART PREDETERMINED  
DIRECTION

DERWENT-CLASS: P56 V06

EPI-CODES: V06-M04; V06-M06B;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1995-149316

DERWENT-ACC-NO: 1987-351909  
DERWENT-WEEK: 198750  
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TITLE: High-precision coil driving linear DC motor  
- has moving section with  
bobbin and coil, and power supply controller  
NoAbstract Dwg 1/3

PATENT-ASSIGNEE: HITACHI LTD[HITA]

PRIORITY-DATA: 1986JP-0094521 (April 25, 1986)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
JP 62254682 A	008	November 6, 1987	N/A
		N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
	APPL-DATE	
JP 62254682A	N/A	
1986JP-0094521	April 25, 1986	

INT-CL (IPC): H02K041/02; H02P007/00

ABSTRACTED-PUB-NO:

EQUIVALENT-ABSTRACTS:

TITLE-TERMS:

HIGH PRECISION COIL DRIVE LINEAR DC MOTOR MOVE  
SECTION BOBBIN COIL POWER SUPPLY  
CONTROL NOABSTRACT

ADDL-INDEXING-TERMS:

IC MANUFACTURE INTEGRATE CIRCUIT

DERWENT-CLASS: U11 V06